RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	
Source:	IFW/b
Date Processed by STIC:	12/2/05
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ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 12/02/2005
PATENT APPLICATION: US/09/676,053D TIME: 15:59:10

Input Set : A:\PTO.AMC.txt

```
4 <110> APPLICANT: Dolly, J. Oliver
        Aoki, Kei Roger
        Wheeler, Larry A.
        Garst, Michael E.
 9 <120> TITLE OF INVENTION: MODIFICATION OF CLOSTRIDIAL TOXINS FOR
        USE AS TRANSPORT PROTEINS
13 <130> FILE REFERENCE: 17044 DIV (BOT)
15 <140> CURRENT APPLICATION NUMBER: 09/676,053D
16 <141> CURRENT FILING DATE: 2000-09-28
18 <150> PRIOR APPLICATION NUMBER: 08/750,101
19 <151> PRIOR FILING DATE: 1997-05-01
21 <150> PRIOR APPLICATION NUMBER: PCT/GB95/0125
22 <151> PRIOR FILING DATE: 1995-05-31
24 <150> PRIOR APPLICATION NUMBER: GB 9410870.1
25 <151> PRIOR FILING DATE: 1994-05-31
27 <150> PRIOR APPLICATION NUMBER: GB 9410871.9
28 <151> PRIOR FILING DATE: 1994-05-31
30 <160> NUMBER OF SEQ ID NOS: 19
32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 33
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <221> NAME/KEY: primer bind
41 <222> LOCATION: (1)...(33)
42 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
43
        neurotoxin L chain
45 <400> SEQUENCE: 1
46 gagatggtcg acatgccaat aaccataaat aat
                                                                           33
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 32
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <221> NAME/KEY: primer bind
55 <222> LOCATION: (1)...(32)
56 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
57
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59 <400> SEQUENCE: 2
60 acgcgaagct tttatcatgc agttctatta ta
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63 <211> LENGTH: 30
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Input Set : A:\PTO.AMC.txt

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65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <221> NAME/KEY: primer bind
69 <222> LOCATION: (1)...(30)
70 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
         amplification of C. tetani neurotoxin L chain
73 <400> SEOUENCE: 3
74 tagtacatgt ataagtgcgt gcattaatag
                                                                           30
76 <210> SEQ ID NO: 4
77 <211> LENGTH: 20
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <221> NAME/KEY: primer bind
83 <222> LOCATION: (1)...(20)
84 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
         amplification of C. tetani neurotoxin L chain
85
87 <400> SEQUENCE: 4
88 ttatacatgt actacatggt
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90 <210> SEQ ID NO: 5
91 <211> LENGTH: 23
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <221> NAME/KEY: primer bind
97 <222> LOCATION: (1)...(23)
98 <223> OTHER INFORMATION: PCR primer for amplification of C. botulinum
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101 <400> SEQUENCE: 5
102 aaaggccttt tgttaataaa caa
                                                                            23
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 26
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <221> NAME/KEY: primer bind
111 <222> LOCATION: (1)...(26)
112 <223> OTHER INFORMATION: PCR primer for amplification of C. botulinum
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115 <400> SEQUENCE: 6
116 ggaattetta ettattgtat eettta
                                                                            26
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <221> NAME/KEY: primer bind
125 <222> LOCATION: (1)...(18)
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Input Set : A:\PTO.AMC.txt

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126 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
          amplification of C. botulinum neurotoxin L chain
127
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130 gcacatcaac ttatacat
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132 <210> SEQ ID NO: 8
133 <211> LENGTH: 18
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <221> NAME/KEY: primer bind
139 <222> LOCATION: (1)...(18)
140 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
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141
143 <400> SEQUENCE: 8
144 atgtataagt tgatgtgc
                                                                             18
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 18
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <221> NAME/KEY: primer bind
153 <222> LOCATION: (1) ... (18)
154 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
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155
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158 aacttatata tqctqqac
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160 <210> SEQ ID NO: 10
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162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <221> NAME/KEY: primer bind
167 <222> LOCATION: (1)...(18)
168 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
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171 <400> SEQUENCE: 10
172 qtccaqcata tataaqtt
                                                                             18
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 13
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <221> NAME/KEY: SITE
181 <222> LOCATION: (1)...(13)
182 <223> OTHER INFORMATION: Portion of predicted amino acid sequence of human
183
          SNAP-25
185 <400> SEQUENCE: 11
186 Cys Ala Asn Gln Arg Ala Thr Lys Met Leu Gly Ser Gly
187 1
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Input Set : A:\PTO.AMC.txt

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188 <210> SEQ ID NO: 12
189 <211> LENGTH: 29
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191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <221> NAME/KEY: primer bind
195 <222> LOCATION: (1)...(29)
196 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
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199 <400> SEQUENCE: 12
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202 <210> SEQ ID NO: 13
203 <211> LENGTH: 26
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <221> NAME/KEY: primer bind
209 <222> LOCATION: (1)...(26)
210 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
         neurotoxin L chain
211
213 <400> SEQUENCE: 13
214 cgggatcctt ctgtatcatt gtaaat
                                                                             26
216 <210> SEQ ID NO: 14
217 <211> LENGTH: 63
218 <212> TYPE: DNA
219 <213 > ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <221> NAME/KEY: misc feature
223 <222> LOCATION: (1)...(63)
224 <223 > OTHER INFORMATION: Polylinker region
226 <400> SEQUENCE: 14
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227 atcgagggaa ggatttcaga attcggatcc tctagagtcg acatgccaat aaccataaag
228 ctt
                                                                             63
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 11
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <221> NAME/KEY: SITE
237 <222> LOCATION: (1)...(11)
238 <223> OTHER INFORMATION: Wild-type region of C. tetani light chain
240 <400> SEQUENCE: 15
241 Leu Leu Met His Glu Leu Ile His Val Leu His
242 1
243 <210> SEQ ID NO: 16
244 <211> LENGTH: 11
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12022005\I676053D.raw

249 <221> NAME/KEY: VARIANT 250 <222> LOCATION: (5)...(5) 251 <223> OTHER INFORMATION: Ala 234 mutant region of C. tetani light chain 253 <400> SEQUENCE: 16 254 Leu Leu Met His Ala Leu Ile His Val Leu His 255 1 - 5 256 <210> SEO ID NO: 17 257 <211> LENGTH: 13 258 <212> TYPE: PRT 259 <213> ORGANISM: Artificial Sequence 261 <220> FEATURE: 262 <221> NAME/KEY: SITE 263 <222> LOCATION: (1)...(13) 264 <223> OTHER INFORMATION: Polylinker region 266 <400> SEQUENCE: 17 267 Ile Glu Gly Arg Ile Ser Glu Phe Gly Ser Pro Pro Phe 268 1 5 269 <210> SEQ ID NO: 18 270 <211> LENGTH: 39 271 <212> TYPE: DNA 272 <213> ORGANISM: Artificial Sequence 274 <220> FEATURE: 275 <221> NAME/KEY: misc feature 276 <222> LOCATION: (1)...(39) 277 <223> OTHER INFORMATION: Polylinker region 279 <400> SEQUENCE: 18 39 280 atcgagggaa ggatttcaga attcggatcc cccctttt 282 <210> SEQ ID NO: 19 283 <211> LENGTH: 19 284 <212> TYPE: PRT 285 <213> ORGANISM: Artificial Sequence 287 <220> FEATURE: 288 <221> NAME/KEY: SITE 289 <222> LOCATION: (1)...(19) 290 <223> OTHER INFORMATION: Polylinker region 292 <400> SEQUENCE: 19 293 Ile Glu Gly Arg Ile Ser Glu Phe Gly Ser Ser Arg Val Asp Met Pro 294 1 5 10 295 Ile Thr Ile

VERIFICATION SUMMARY

DATE: 12/02/2005 TIME: 15:59:11

PATENT APPLICATION: US/09/676,053D

Input Set : A:\PTO.AMC.txt